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| APPLICATION N                                 | 0.   | FILING DATE | FIRST NAMED INVENTOR    | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---|------|-------------|-------------------------|---------------------|------------------|--|
| 10/088,154                                    | -    | 07/16/2002  | Franz-Josef Adams       | SWR-0080            | 2913             |  |
| 23413   | 7590 | 02/03/2004  |                         | EXAM                | EXAMINER         |  |
|   |      | JRN, LLP    | DUNWOODY, AARON M       |                     |                  |  |
| 55 GRIFFIN ROAD SOUTH<br>BLOOMFIELD, CT 06002 |      |             |                         | ART UNIT            | PAPER NUMBER     |  |
|   |      |             |                         | 3679                |                  |  |
|   |      |             | DATE MAILED: 02/02/2004 |                     |                  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |   |  | Application No.   |   | Applicant(s)   |                                       |  |  |  |
|--|---|--|---|---|--|---------------------------------------|--|--|--|
| •  |   |  | 10/088,154  |   | ADAMS ET AL.   |                                       |  |  |  |
| Office Action Summary  |   |  |   |   |  |                                       |  |  |  |
|  | Omoc Addon Gummary  |  | Examiner  |   | Art Unit   |                                       |  |  |  |
|  | The MAILING DATE of this commu  |  | aron M Dunwoody   | oot with the c  | 3679   | dross                                 |  |  |  |
| Period for   |   | ilication appea  | is on the cover sin   | set will the C  | orrespondence du   | ure33                                 |  |  |  |
| THE MA - Extensi after SI - If the pe - If NO pe - Failure - Any rep | RTENED STATUTORY PERIOD AILING DATE OF THIS COMMUN ons of time may be available under the provisior X (6) MONTHS from the mailing date of this constrict of the provided above is less than thirty period for reply is specified above, the maximum is to reply within the set or extended period for reply received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b). | NICATION. us of 37 CFR 1.136(amunication. (30) days, a reply with statutory period will a ly will, by statute, ca  | a). In no event, however,<br>thin the statutory minimur<br>apply and will expire SIX (<br>use the application to bec  | may a reply be tim<br>n of thirty (30) days<br>6) MONTHS from<br>ome ABANDONED            | ely filed<br>s will be considered timel<br>the mailing date of this co<br>O (35 U.S.C. § 133). | y.<br>mmunication.                    |  |  |  |
| 1)⊠ F  | tesponsive to communication(s) fi   | led on <u>07 Nov</u>   | <u>ember 2003</u> .   |   |  |                                       |  |  |  |
| 2a)⊠ T   | his action is <b>FINAL</b> .  | 2b)∐ This ac   | tion is non-final.  |   |  |                                       |  |  |  |
|  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.   |  |   |   |  |                                       |  |  |  |
| Dispositio   | n of Claims   |  |   |   |  |                                       |  |  |  |
| 5)□ C<br>6)図 C<br>7)図 C  | Claim(s) 1,8 and 11-17 is/are pending in the application.  4a) Of the above claim(s) 11-17 is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1,8,11,12,14 and 17 is/are rejected.  Claim(s) 13,15 and 16 is/are objected to.  Claim(s) are subject to restriction and/or election requirement.   |  |   |   |  |                                       |  |  |  |
| Applicatio   |   |  | , , , , , , , , , , , , , , , , , , ,   |   |  |                                       |  |  |  |
| 10)□ TI<br>A<br>F  | ne specification is objected to by the drawing(s) filed on is/arc pplicant may not request that any objected seplacement drawing sheet(s) including the oath or declaration is objected   | e: a) acceptection to the draining the correction  | awing(s) be held in a<br>is required if the dr  | beyance. See<br>awing(s) is obj   | e 37 CFR 1.85(a).<br>ected to. See 37 CF   |                                       |  |  |  |
| •  | der 35 U.S.C. §§ 119 and 120  | to by the Lxan   | illiler. Note the att   | acried Office   | Action of formal   | 0-132.                                |  |  |  |
| 12) A A A A A A A A A A A A A A A A A A A                            | cknowledgment is made of a claim   All b)   | y documents he documents he documents he of the priority onal Bureau (lon for a list of for domestic ped in the first stanguage provision domestic per domestic per domestic per documents in per documents and documents in per documents per d | pave been received ave been received documents have PCT Rule 17.2(a)) the certified copie oriority under 35 Usentence of the sponsional application or oriority under 35 Useriority under | d. d in Application been receive s not receive .S.C. § 119(e) ecification or has been rec | on No  d in this National  d. e) (to a provisional in an Application eived. and/or 121 since   | I application) Data Sheet. a specific |  |  |  |
| Attachment(s   | s)  |  |   |   |  |                                       |  |  |  |
| 2) Notice  | of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (tion Disclosure Statement(s) (PTO-1449)  |  |   | ce of Informal P  | (PTO-413) Paper No(<br>atent Application (PTC  |                                       |  |  |  |

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#### **DETAILED ACTION**

#### Information Disclosure Statement

The information disclosure statement (IDS) filed 4/22/2002 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

# Claim Objections

Claims 1, 8 and 17 are objected to because of the following informalities:

Regarding claims 1, 8 and 17, the phrase "window-type" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "window-type"), thereby rendering the scope of the claim(s) unascertainable.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by US patent 3935717, Welschof.

In regards to claim 1, Welschof discloses a ball cage comprising:

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a ball cage blank (16) configured as a substantially annular spherical segment and having at least some functional zones (46) that are elevated as compared to an adjacent surface (any convenient surface) of the ball cage blank; and

window ball pockets (24) formed in the ball cage blank and located along an equator (any convenient equator) with substantially equator-parallel bearing surfaces that interact with joint balls (18),

wherein the functional zones are located at least on outer ring edge areas and interact with the joint bell (as a complete homokinetic joint)

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by US patent 3815381, Wagner.

In regards to claim 1, Wagner discloses a ball cage (30) comprising:

a ball cage blank (30) configured as a substantially annular spherical segment and
having at least some functional zones (42c) that are elevated as compared to an
adjacent surface (any convenient surface) of the ball cage blank; and

window ball pockets (44) formed in the ball cage blank and located along an equator (any convenient equator) with substantially equator-parallel bearing surfaces that interact with joint balls (32),

wherein the functional zones are located at least on outer ring edge areas and interact with the joint bell (as a complete homokinetic joint).

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Claims 11, 14 and 17are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 5410902, Jacob.

In regards to claim 11, Jacob discloses a method of producing a ball cage, the method comprising:

machining a functional area (19a) of a ball blank with an uninterrupted cut, wherein before the machining (col. 5, lines 1-36), the functional area is elevated as compared to an adjacent surface of the ball cage blank.

In regards to claim 14, Jacob discloses after machining, the functional area is elevated compared to the adjacent surface.

In regards to claim 17, Jacob discloses stamping window ball pockets.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Welschof.

In regards to claim 8, Welschof discloses the claimed invention except for the window-type pockets having such dimensions that the surfaces, on which the equator-parallel functional zones are designed, being longer than these. It would have been obvious to one having ordinary skill in the art at the time the invention was made to fabricate the window-type pockets with such dimensions that the surfaces, on which the equator-parallel functional zones are designed, being longer than these, since a change

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in the shape of a prior art device is a design consideration within the skill of the art. <u>In re Dailey</u>, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jacob in view of US patent 6161414, Hainz.

In regards to claim 12, Hainz discloses the claimed invention except for hardening the ball cage blank before the machining of the functional area. Hainz teaches hardening the ball cage blank before the machining of the functional area (col. 1, lines26-32). As Hainz relates to a method for finishing a cage windows in a ball cage, it would have been obvious to one having ordinary skill in the art at the time the invention was made to hardening the ball cage blank before the machining of the functional area, since it was known in the art that ball cages are hardened prior to being ground.

#### Allowable Subject Matter

Claims 13, 15 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose a method for producing a ball cage comprising machining the functional area by hard-turning; nor, after machining, the functional area being at the same level as an adjacent surface; nor, forming the ball cage blank by rolling processing.

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#### Response to Arguments

Applicant's arguments filed 11/7/2003 have been fully considered but they are not persuasive. The applicant argues:

The claim requires that the ball cage blank has at least some functional zones that are elevated. There is nothing in either Wagner or Welschof that teaches or suggests that ball cage blank has such elevated functional zones.

The Examiner disagrees. Wagner discloses a ball cage blank having elevated functional zones 46, and Welschof discloses a ball cage blank having elevated functional zones 42c; therefore, both Wagner and Welschof meet the claimed limitation.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M Dunwoody whose telephone number is (703)

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306-3436. The examiner can normally be reached on Monday - Friday between 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on (703) 308-1159. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

.amd

Lynne H. Browne
Supervisory Patent Examiner
Technology Center 3670

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